

# GIA – Get Intune Assignments

<https://sibranda.github.io/GetIntuneAssignments/>

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## About

Get Intune Assignments is a C#.NET free app built for Intune that queries Intune and Entra ID via MS Graph.

This app aims to retrieve all active Intune item assignments.

The focus is to retrieve Assignments, so if you have an item (policy, settings, app) but it does not have an assignment, GIA will not report it.

You can also export the data to a CSV file if desired.

Please send me any comments you would like. This can help me fix bugs and create better solutions to help everyone.

## Copyrights Warranty and Support

This application is **completely free**. I created it for **personal** needs and my **work** needs, as it was extremely useful, I decided to share it with the community.

I created this app in my spare time which I don't have much of, like most people, so I can't provide support or guarantee that the app will work as expected in your environment.

I'm just trying to do my part in the world.

You don't need to use this app; you don't need to be rude to me because you don't know me and don't trust me or think the app is malicious. Like I said: you have no obligation to use the app. If you want to give it a try, I hope it can be helpful to you and/or your clients.

And **feel free** to **send** me **feedback** as it helps everyone.

## Document Version

This document was updated on **Jul 02, 2024**.

## Requirements

**User access** to Intune and Entra ID Resources:

Users must have access to **Read All** Intune Items and queries for Entra ID Groups, Devices and Users.

**Create/Register** an Entra ID App to Get Intune Assignments and get data from the environment.

Follow the **Read Rights** the User and the App may need:

```
Device.Read.All
DeviceManagementApps.Read.All
DeviceManagementConfiguration.Read.All
DeviceManagementManagedDevices.Read.All
DeviceManagementServiceConfig.Read.All
Group.Read.All
GroupMember.Read.All
Policy.Read.All
User.Read.All
```

## Creating an App Registration on your ENTRA ID.

GIA uses an **App Registered** to get MS Graph Token Authentication to be able to query your Intune and Entra ID Environment.

### Note

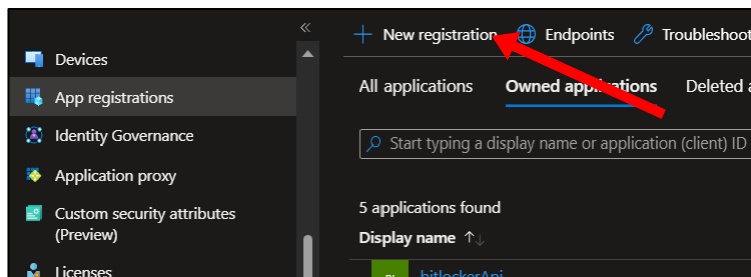
You can use any App you already have if your App have the **Read** Permissions Required.

**For Best Practices and Safety** use an App with **Read Only** Permissions

Log in to the Entra ID Portal with an user who have permission to register Apps.

Go to the [App Registrations](#) Blade.

Click **New registration** to create an App:



Give a **Name** for your application i.e., **"GIA"**.

Select the Supported account types i.e., **"Accounts in this organizational directory only (YOURDOMAIN.COM only - Single tenant)"**

At **Redirect URI** (optional) choose **Public client/native (mobile & desktop)** and enter the following address:

**"https://login.microsoftonline.com/common/oauth2/nativeclient"**

Click the **Register** button.

**Register an application** ...

\* Name  
The user-facing display name for this application (this can be changed later).  
GIA ✓

Supported account types  
Who can use this application or access this API?  
☒ Accounts in this organizational directory only (YOURDOMAIN.COM only - Single tenant)  
☐ Accounts in any organizational directory (Any Microsoft Entra ID tenant - Multitenant)  
☐ Accounts in any organizational directory (Any Microsoft Entra ID tenant - Multitenant) and personal Microsoft accounts (e.g. Skype, Xbox)  
☐ Personal Microsoft accounts only  
[Help me choose...](#)

Redirect URI (optional)  
We'll return the authentication response to this URI after successfully authenticating the user. Providing this now is optional and it can be changed later, but a value is required for most authentication scenarios.  
Public client/native (mobile & desktop) https://login.microsoftonline.com/common/oauth2/nativeclient ✓

By proceeding, you agree to the [Microsoft Platform Policies](#)

Register

After creating/registering the App. **Copy** your **application (client) ID** to use in GIA settings:

**GIA** ...

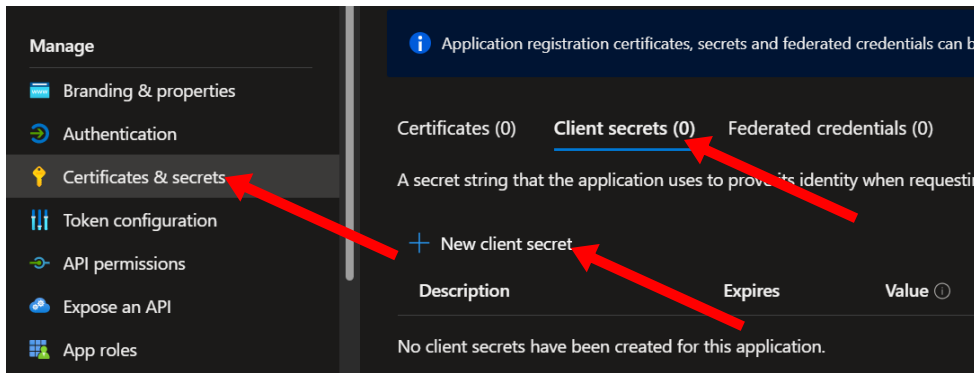
Search << Delete Endpoints Preview features

Overview  
Quickstart  
Integration assistant

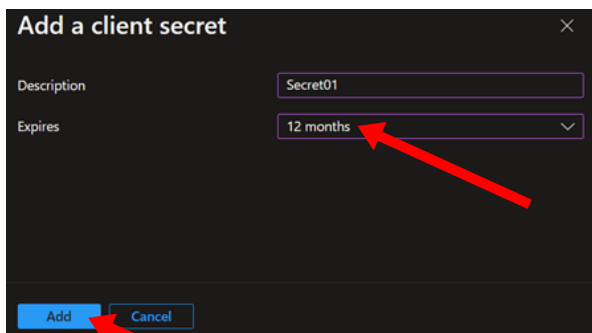
Essentials  
Display name : GIA  
Application (client) ID : 12345678-1234-1234-1234-123456789012 Copy to clipboard

**(optional)**

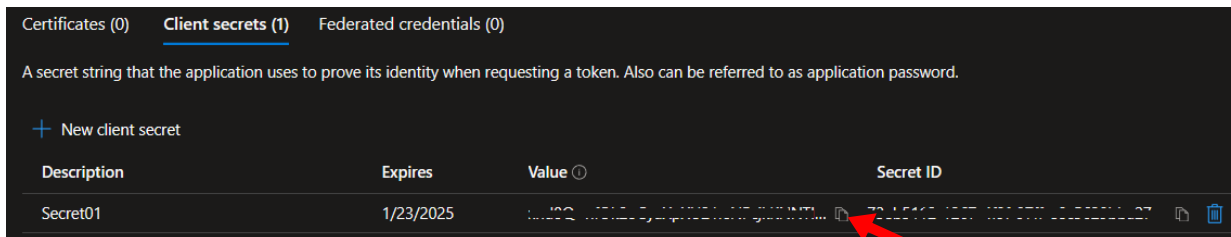
### Client secrets and “+ New client secret”:



**expire** and click the **Add** button:



### copy the Value of the Secret:



### Note

After creating Secret, you **Need to Copy** the **Value**.  
**The value will be hidden** after you leave this page.  
 So, **Don't Forget to copy** the Value before leave.

## Starting with Get Intune Assignments Application.

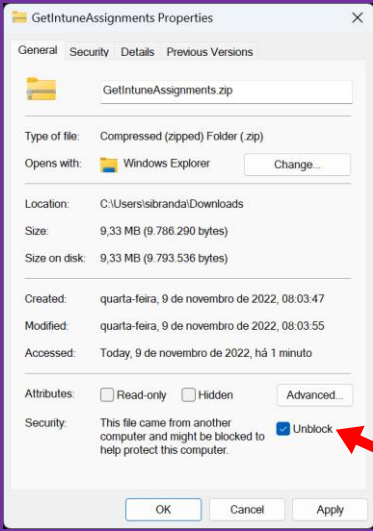
Go to the **Folder** where you **download** the **Get Intune Assignments** Application:

First, check if the Zip file you downloaded is not **Locked**.

**Note**

When the file is downloaded from internet  
It can be blocked for safety.  
Check if your Zip file is not **Blocked**:

**Before Extract**  
Right click on the file  
Go to the **Properties**  
Uncheck the “**Unblock**” checkbox if need!  
Click **Ok**.  
Then, you can extract the content.



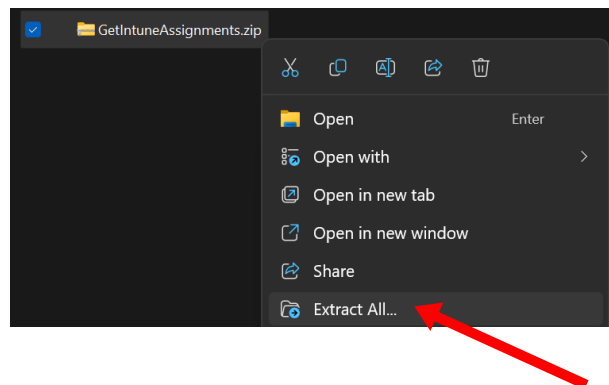
The screenshot shows the 'GetIntuneAssignments Properties' dialog box with the 'Security' tab selected. The 'Unblock' checkbox is checked, and a red arrow points to it. The dialog box also shows file details such as 'Type of file: Compressed (zipped) Folder (.zip)', 'Location: C:\Users\sibranda\Downloads', and 'Size: 9,33 MB (9.786.290 bytes)'.

Extract Get Intune Assignments App from zip file

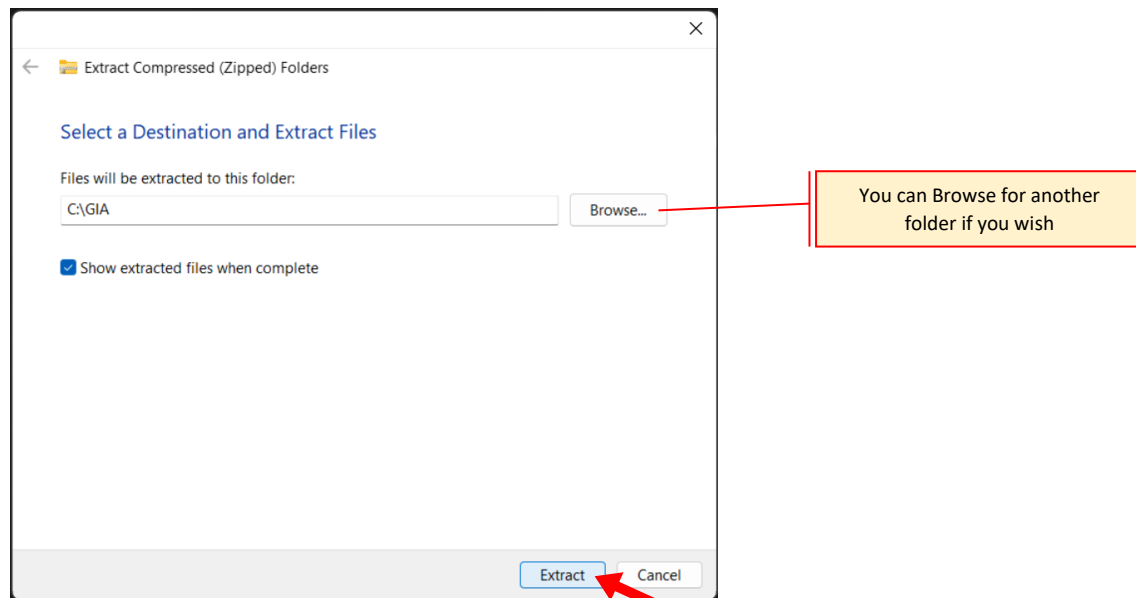
You can use any tool you want for this.

Here is how to use **Windows Compressed Folder** to extract:

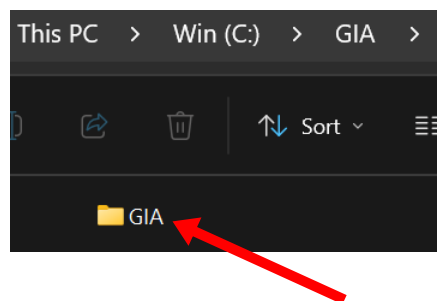
**Right click** on the File and Click on **Extract All...**



In the wizard window hit **the Extract** button and wait to complete.

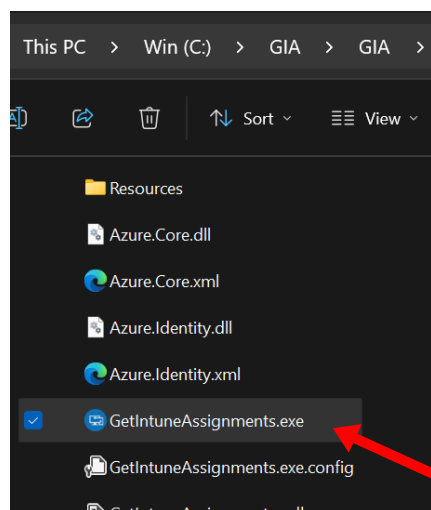


Will be created a new **folder** at directory you choose:



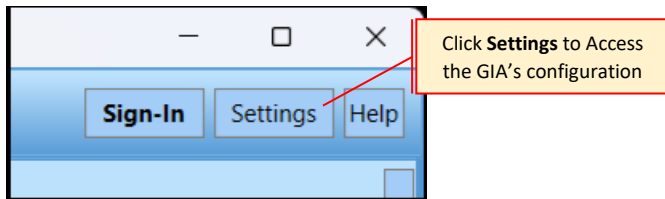
Open this folder and locate the **GetIntuneAssignments** executable file.

Double click to run the Application.



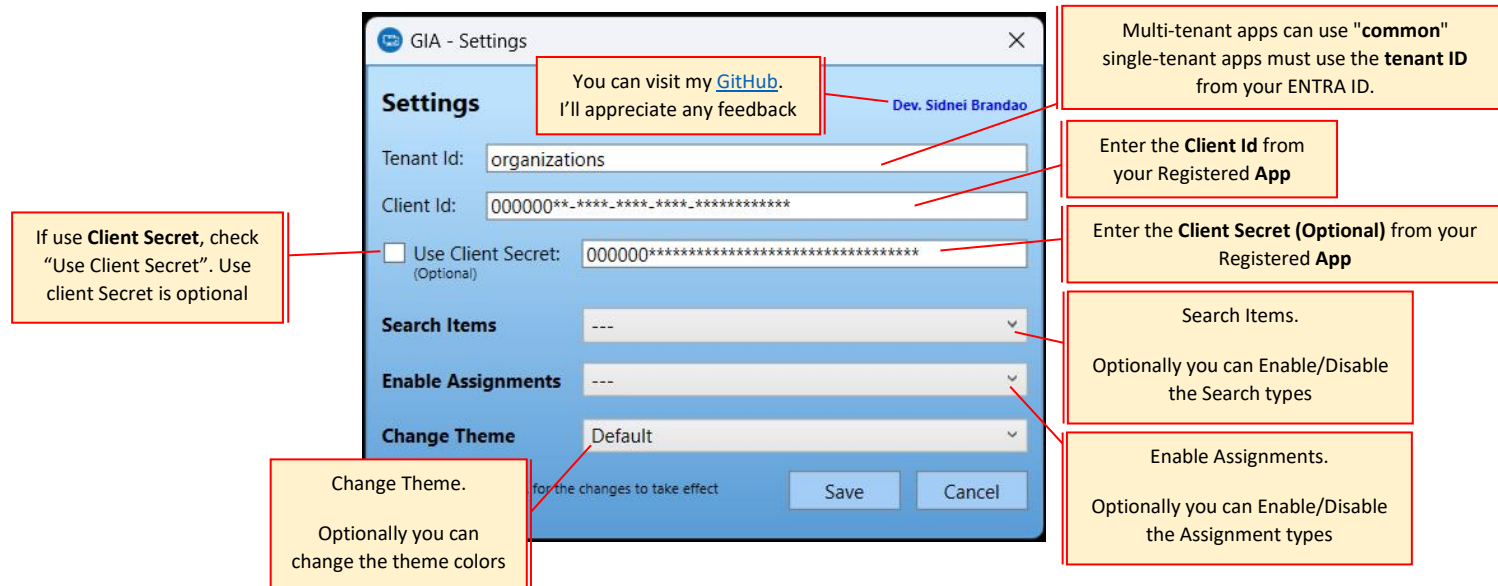
## Configuring Get Intune Assignments Application.

In the Main Windows from **Get Intune Assignments** click the **Settings** button in the upper right corner.



Enter your environment data like **Client Id**, **Tenant Id** and Client Secret if's needed.

Then click **Save** button to save the settings.



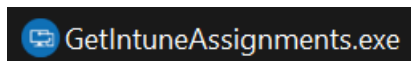
### Note

Be sure to enter the correct application (Client Id) from your app to Get Intune Assignments Work properly. Get Intune Assignments Will **Restart** to apply the changes.

## Running Get Intune Assignments Application.

After configuring all the settings you can **Run** the **application**.

Just execute **GetIntuneAssignments.exe**



The Application will start.

Click on **Sign-In** Button and enter your **Entra ID User** who has **Rights to read Intune** and **Entra ID** objects.

**First Time Sign-In using a User**, the Permission dialog box will ask you to **consent/accept the permissions**.

**Permissions requested**

GIA

**This application is not published by Microsoft.**

This app would like to:

- ✓ Read all devices
- ✓ Read Microsoft Intune apps
- ✓ Read Microsoft Intune Device Configuration and Policies
- ✓ Read devices Microsoft Intune devices
- ✓ Read Microsoft Intune configuration
- ✓ Read all groups
- ✓ Read group memberships
- ✓ Read your organization's policies
- ✓ Read all users' full profiles
- ✓ Maintain access to data you have given it access to

☐ Consent on behalf of your organization

Accepting these permissions means that you allow this app to use your data as specified in their terms of service and privacy statement. You can change these permissions at <https://myapps.microsoft.com>. [Show details](#)

Does this app look suspicious? [Report it here](#)

Cancel Accept

**Note**

**ALL Permissions** application needs is set to **READ**.  
Get Intune Assignments **Can't** and **Won't** change anything in your environment

**Optionally** you can check Consent on behalf of your organization if you have permission

Confirm all **READ** permissions.

If you want, check the “Consent on behalf of your organization” then click **Accept Button**

Consent on behalf of your organization is optional for user authentication.

**Note**

Get Intune Assignments needs **Read Only** permissions.  
The App will **NEVER** change anything in your environment.

After the Accept you can see the user is **Signed In**:

Welcome sidnei@

Sign-Out Settings Help

Signed user UPN.  
If using Secret App, GIA will show: **Using App Secret**



## GIA Interface.

This is the new interface from **GIA 3.1**.

The screenshot shows the GIA - Get Intune Assignments v.3.1 web application. The interface includes a header bar with the title "GIA - Get Intune Assignments" and a navigation menu with "Sign-In", "Settings", and "Help" buttons. Below the header is a search section with a text input field labeled "Search Azure AD Item:", a "Search" button, and a "Show All Assignments" button. The main content area is a large blue box. At the bottom right, there is a "View Log" link. Several callout boxes provide additional information:

- Sign-In / Sign-Out**: Use to Sign-In and Sign-Out also permit change current user
- Help**: Show This Help
- Search Bar**: Use **text box** to enter the name of the item you want and hit **Search** button
- Settings**: Open Configurations
- Result Box**: Show the list of items found from the Search
- Show All Assignments\***: Retrieve information about All Assigned items from Intune regardless any group.  
\* This function **may take a long time** to process depending on the number of items and groups in the environment
- View Log**: Click here to Open Log.

## How to retrieve Information from specific ENTRA ID Group.

Type any string to search for a item and hit **Search** Button:

After searching, just **click on the item** you want to retrieve Information.

**GIA - Get Intune Assignments v3.1**

**Name or string to search**

**Search Azure AD Item:**  **Search** **Show All Assignments**

**Selected Item:** AAD Group: Intune - Test

**Information from the selected Member from this Group**

**Group - Intune - Test**

**You can Resize this Panel**

**Selected Item**

**Group Information Including overview and Members**

**List of Members**

**Show 50 First members from selected Group**

**Export All**  
Use to Export **All** assignments result to a CSV file

**Export Selected**  
Use to export the **Selected** assignments result to a CSV file

**Note:** if none are found, "0" will be displayed

**You can Resize the Window**

**Intune - Test**

**Total Members: 3**  
Result is limited to 50 (Use Search)

**AUTOPILOT9194**

**AUTOPILOT9194 Information**

Item	Value
Device Compliance	True
Device Configuration	True
Managed Apps	True
Remediations	True
Information	True
Member Of	True
Primary User	True
Logged On User	True
Device Id	065e7e3a-24ac-4587
Device Name	065e7e3a-24ac-4587
Device Enrollment Type	windowsAzureADJoin
Device Firmware Configuration Interface Managed	False
Device Registration State	registered
Device Type	windowsRT

To retrieve the information about the **Assignments**, click on the Item you want i.e. Device Configuration Profiles:

GIA - Get Intune Assignments v.3.1

Using App Secret **Sign-Out** **Settings** **Help**

**GIA - Get Intune Assignments**

Search Azure AD Item:  **Search** **Show All Assignments**

Group - Intune - Devices - Windows - All CoManaged  
Group - Intune - Devices - Windows - Autopilot Dynamic  
Group - Intune - Devices - Windows - Shared Multi-User  
Group - Intune - Enroll - Allow Personal Devices  
Group - Intune - Enroll - Restrict Personal Devices  
Group - Intune - License  
Group - Intune - Read Only Operators  
**Group - Intune - Test**  
Group - Intune - Windows - Disable Microsoft Store

Autopilot Configurations: 3  
Autopilot Devices: 0  
Conditional Access Policies: 6  
Device Compliance Policies: 3  
**Device Configuration Profiles: 15**  
Endpoint Security Policies: 6

**Export All** **Export Selected**

**Device Configuration Profiles**

Display Name	Target Name	Assignment Type
Android Profile Test	Intune - Test	Group Assignment Target
Attack Surface Reduction Test	Intune - Test	Group Assignment Target
<b>Delivery Optimization</b>	<b>Intune - Test</b>	<b>Group Assignment Target</b>
Disable Microsoft Store	Intune - Test	Group Assignment Target
Edge Adm Template	Intune - Test	Exclusion Group Assignment

**Information about the Device Configuration Profiles assignments in the Selected Group**

**Click on Device Configuration Profile to check details**

**Selected Item:**  
AAD Group: Intune - Test

**Assignment Information**

Item	Value
Assign source	direct
Assign target	DevConfigProfiles.Target
Odata Context	https://graph.microsoft.com/beta/\$metadata#de
Time	25/03/2021 12:49:17
	https://learn.microsoft.com/en-us/windows/depl
	Delivery Optimization
Date Time	19/04/2023 14:05:46
Odata Type	windowsDeliveryOptimizationConfiguration
Target Odata Type	groupAssignmentTarget
Target Group Name	Intune - Test
Target Profile Type	Device Configuration Profile
Target group Id	5381d2e5-bf53-44c6-ad58-8e4775f7527c

**Information about the selected assignment item.**

Ready View Log

## Retrieving Information from All Intune Assignments.

You can retrieve **all Intune assignments**, regardless of groups, users or devices.

In this case, you don't need to look for any item.

Just click the button 

### Note

Remember that **GIA only brings** items that **have Assignments** configured, if you don't see an item from your environment, it probably doesn't have an assignment for any user, device or group configured.

### Note

Keep in mind this action **may take a long time** to process depending on the number of Items assigneds in the environment.

## Group Members Information.

You can retrieve information about **Group members**, like device **compliance**, **configuration**, **managed apps**, **app configuration**, **remediation**, **primary users**, **logged on user** and **member off**.

You just need to search for a **group** and select a **member**:

**GIA - Get Intune Assignments v3.1**

Using App Secret **Sign-Out** **Settings** **Help**

**Search Azure AD Item:**

intune **Search** **Show All Assignments**

Group - Intune - Devices - Windows - All CoManaged  
Group - Intune - Devices - Windows - Autopilot Dynamic  
Group - Intune - Devices - Windows - Shared Multi-User  
Group - Intune - Enroll - Allow Personal Devices  
Group - Intune - Enroll - Restrict Personal Devices  
Group - Intune - License  
Group - Intune - Read Only Operators  
**Group - Intune - Test**  
Group - Intune - Windows - Disable Microsoft Store

**Group Information**  
App Configuration Policies: 7  
App Protection Policies: 5  
Applications: 6  
Autopilot Configurations: 3  
Autopilot Devices: 0  
**Export All** **Export Selected**

**Intune - Test**  
Total Members: 3  
Result is limited to 50 (Use Search)  
**AUTOPILOT9194**  
jsilva\_AndroidEnterprise\_3/24/2023\_3:15 PM  
Pedro

**Selected Item:**  
AAD Group: Intune - Test

**AUTOPILOT9194 Information**  
Device Compliance | Device Configuration | Managed Apps | Remediations  
Information | Member Of | Primary User | Logged On User  
Filter Clear Total: 7  
Intune - Autopilot Devices - User-Driven  
Intune - Devices - All  
Intune - Devices - Windows - All  
Intune - Devices - Windows - Autopilot Dynamic  
Intune - Test  
Intune - Windows - Endpoint Security - Bitlocker  
Intune - Windows - Endpoint Security - Defender Antivirus

Ready **View Log**

You can also search for a **device** or **user**:

**GIA - Get Intune Assignments v3.1**

Using App Secret **Sign-Out** **Settings** **Help**

**Search Azure AD Item:**

9194 **Search** **Show All Assignments**

**Device - AUTOPILOT9194**

**Device Information**  
App Configuration Policies: 0  
App Protection Policies: 1  
Applications: 7  
Autopilot Configurations: 6  
Autopilot Devices: 1  
**Export All** **Export Selected**

**AUTOPILOT9194 Information**  
Information | Member Of | Primary User | Logged On User | Device Compliance | Device Configuration | Managed Apps | Remediations  
Filter Clear Total: 42

Policy Name	Policy Status	Last Modified Time UTC	Policy Type	UPN
Attack Surface Reduction Test	Success	24/06/2024 20:07:57	SettingsCatalog	sidnei@...
Attack Surface Reduction Test	Success	12/03/2024 20:31:59	SettingsCatalog	sidnei@...
Delivery Optimization	Success	28/06/2024 11:08:16	DeliveryOptimization	sidnei@...
Delivery Optimization	Success	12/03/2024 20:31:59	DeliveryOptimization	sidnei@...
Disable Microsoft Store	Success	28/06/2024 15:03:40	GroupPolicyConfiguration	sidnei@...
Edge Startup Page Test ADM Template	Success	28/06/2024 11:06:47	GroupPolicyConfiguration	sidnei@...
Enable Windows Update for Business reports - 2023	Success	12/03/2024 20:31:59	SettingsCatalog	sidnei@...
Enable Windows Update for Business reports - 2023	Success	24/06/2024 20:07:57	SettingsCatalog	sidnei@...

Ready **View Log**

## New Items to search.

Starting in **GIA3**, in addition to the standard search for Entra ID **groups**, you can also search for **devices** and **users**.

Also, was added the capability to search for **Entra ID Groups** using the object ID. This can be useful to search for deleted groups.

You can search by the following fields:

- Group Name
- Device Name
- User Display Name
- User UPN (mail)

Check the **example** below:

The screenshot shows a search interface titled "Search Azure AD Item:". A text input field contains the search term "autop", and a "Search" button is to its right. Below the input field, a list of search results is displayed. The results include several groups and devices, each starting with "Group -" or "Device -". A red callout box points to the first few results, containing the text: "Searching 'autop' in this environment brings Groups and Devices. Note the identifier 'Group' or 'Device' in each item."

Search Results
Group - Intune - Autopilot Devices - Self-Deploying
Group - Intune - Autopilot Devices - User-Driven
Group - Intune - Autopilot Devices - User-Driven Pre
Group - Intune - AutoPilot Users
Group - Intune - Devices - Windows - Autopilot Dyn
Device - AUTOPILOT0171
Device - AUTOPILOT1498
Device - AUTOPILOT1559
Device - AUTOPILOT4207

- If enabled from Configuration, you can search for Entra ID **Group** by **Object ID**

The screenshot shows the same "Search Azure AD Item:" interface. The text input field now contains the Object ID "5381d2e5-bf53-44c6-ad58-8e4775f7527c". The "Search" button is to its right. Below the input field, a single search result is displayed, which is a group identified by the same Object ID.

Search Results
Group - 5381d2e5-bf53-44c6-ad58-8e4775f7527c

## Version History

### ver. 3.1 – June 18, 2024

Implementation of new tabs in Device Information.

Removed status tabs from selected assignments.

Search limited to 100 results for best performance.

Added Functions:

- Retrieve Conditional Access (CA) assignments based on roles.
- Windows Updates including Rings, Quality, Features and Drivers.

BUG Fix

- CA excluded by group was not showing to user member.
- CA for all users was not working.
- Fixed error when multiple clicks in assignments list.
- Fixed error when user have assignments in uplevel groups.
- Fixed display name missing from policy sets in logs.
- Fixed filters function to filter without need to click clear button first.
- Fixed log information during the search.
- Fixed text information when selecting a user from search.

### ver. 3.0 – April 04, 2024

Added new themes including accessibility high contrast.

Created a new settings dialog box with combos.

Created a new panel for assignment detail.

Created a new panel for details about group members.

Logs folder location changed to %temp% folder.

New icon.

New title bar with Maximize/Restore function.

Re-design window appearance.

Removed the undock window function.

Show the result status of the assignment.

New information tabs for assignments, groups, devices and users.

Added Functions:

- Autopilot devices.
- Bring assignments target All Devices and All Users.
- Clear button in membership search.
- Filter assignments resulting information.
- Information about Logged on user.
- Information about Primary User for devices.
- Information from Group, devices and users.
- Member of from devices and users.
- Merged all types of devices configurations in a single assignment item.
- Status information from assignments (which are support).
- Search assignments in Uplevel groups.
- Search and retrieve information for devices and users.
- Search function for members.
- Search group by ID.

BUG Fix

- Created a clear button in the member search box.
- Fixed catalog settings missing assignments.
- Fixed columns in export csv file.
- Fixed group search limit.
- Fixed groups names on logs.
- Fixed missing status bar messages.
- Fixed tip color from Dark theme
- Hand cursor for all buttons.
- Search limit results for groups.

ver. 2.1 – Mai 25, 2023

Re-design window appearance.

Removed description column.

Single window app.

Added Functions:

- Export All or Selected Assignment Types.
- Group Information.
- Member Detail.
- Member Search.
- Undock / detach Result Window.

BUG Fix

- Error when app size is too big.
- Export All be inactive when any assignments are unchecked from settings.
- Fixed Graph paging when the result exceeds a number of results.
- Fixed Group information devices Ids.
- Fixed interface errors.
- Fixed theme colors missing objects.
- Group members count was not working.

ver. 2.0 – April 17, 2023

Added inclusion or exclusion group information for supported assignments.

Checking Intune Assignments scroll bar support.

Encrypted tenant data in config file.

Multi window support.

Scroll bar on Assignments window.

Setting new options to enable/disable assignments information.

Added Functions:

- Autopilot Configurations.
- Enrollment Restrictions.
- iOS App Provisioning Profiles.
- Proactive Remediations.

BUG Fix

- Fixed multi errors messages when a group couldn't be retrieved.
- Fix checkbox color in dark theme.
- Fixed CSV Export Format.
- Fixed Description texts.
- Fixed Sign-Out when using app secret.
- Minor interface bugs fixed.

ver. 1.5 – November 07, 2022

Added support to use app secret (optional).

Apps now show available or required.

Introducing the Acronym GIA.

Added Functions:

- Policy Sets.

BUG Fix

- PowerShell Scripts missing from report.

ver. 1.4a – September 23, 2022

Graphical Interface enhancements.

New title bar and window visuals.

Added Functions:

- Auto Restart when changing Settings.

BUG Fix

- Fixed Messages Box to show correct information.
- Export to file now include all Items.
- Minor bugs fixed.
- Save config file if was changed.
- Windows position in current monitor.



ver. 1.3b - September 20, 2022

Added Dark theme.

Created customized Title Bar.

Created Settings Dialog to Configure Client ID and Tenant.

First released Beta Version.

Added Functions:

- App Configuration Policies.
- App Protection Policies.

BUG Fix

- Fixed Alphabetical order in results.

ver. 1.3a - September 14, 2022

Created Help function and Doc.

Released this version to Alpha Test.

Added Functions:

- Export to CSV File.
- Show All Intune Assignments Regardless of Entra ID Group.

BUG Fix

- Fixed error on export Applications with Description in Multiline.
- Minor errors fixed.

ver. 1.2b - September 10, 2022

First beta version using C#.Net.

Added Functions:

- Conditional Access.
- Created Sign-Out Function.
- Created writeLog Function.
- PowerShell Scripts.

ver. 1.2a - September 09, 2022

Added Functions:

- Applications.
- Device Compliance Policies.
- Device Configuration Profiles.
- Device Settings Catalog.
- Endpoint Security Policies.

BUG Fix

- Fixed Dialog Windows.
- Minor errors fixed.

ver. 1.1a - September 02, 2022

Added Functions:

- Applications.
- Device Compliance Policies.

BUG Fix

- Fixed interface commands to Search.
- Enhanced GUI objects.
- Minor errors fixed.

ver. 1.0a - August 30, 2022

Created the Main Window form.

Function to Check Adm Templates.

Function to search AAD Groups.

Starting to rebuild in C# .NET framework.

ver. 0.2b - August 25, 2022

Added Endpoint Security Policies.

BUG Fix

- Minor errors fixed.

ver. 0.1c - August 24, 2022

Removed the need for AzureAD Module increasing speed in Groups query.

BUG Fix

- Fix two requests for authentication.
- GUI fixes and improvements.
- If a new group was created with Script running it was not possible to find it.
- Fix description column position.
- Fix groups search.

ver. 0.1b - August 22, 2022

Created the name "Get Intune Assignments".

Function to search and retrieve assignments from the selected group.

Function to retrieve all Assigned items from Intune regardless of any group.

The First version of who worked without many bugs.

Added Functions:

- Applications.
- Device Configuration Profiles.
- Delivery Optimization.
- Device Restrictions.
- Identity Protection.
- Trusted Certificate.
- Device Settings Catalogs.
- PowerShell Scripts.

ver. 0.1a - July 27, 2022

The First version with GUI.

Added Administrative Templates and Device Catalogs.

ver. 0.0b - July 05, 2022

New script to get Compliance Policies.

ver. 0.0a - June 15, 2022

Just a bunch of command line scripts in PowerShell to get Configuration Profiles and Apps.

**Thanks to all who collaborate and gave feedback to make GIA Better.**